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Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Vol. 11 No. 25/March 5, 1987



The thrill of victory: Washington University basketball coach Mark Edwards celebrates the Bears' 57-42 win over 10th-ranked DePauw University with players Kevin Suiter (#11) and Rick Robinson. The 17th-ranked Bears, who improved their season record to 20-6 with the win, received a bid Sunday to the NCAA Division III postseason tournament. The Bears will host the NCAA Division South Regional on March 6-5 in the Field House.

Chromosome 11

Manic depression gene located by Washington scientist

Researchers have discovered a gene on human chromosome 11 that can cause or contribute to the development of manic depressive disorder. This finding, reported by a team of scientists from several universities — including a geneticist now at the Washington University School of Medicine — is the first report of a gene that predisposes individuals to a common psychiatric disorder.

These results may open a new era in the application of molecular genetics techniques to psychiatric disorders and provide a bridge between genetic and physiological approaches to psychiatric illness, according to Daniela Gerhard, Ph.D., an assistant professor of genetics at Washington University.

Gerhard located the manic depression gene as part of her postdoctoral studies at Massachusetts Institute of Technology. In addition to her collaborators at MIT, scientists from the University of Miami and Yale University played key roles in the research and were co-authors of a recent *Nature* (scientific journal) article detailing the study.

Manic depression, also sometimes referred to as "bipolar affective disorder," is characterized by periods of mania (euphoria, excessive energetic activity or irritability) often alternating with depression. The disorder can lead to confusion and mood swings and can have life-threatening consequences including loss of judgment, excessive risk-taking or daring, and attempts at suicide.

Manic depression affects approximately 2 million Americans. It usually develops between the teen-age years and the mid-30s. Though common, manic depression is quite treatable. Currently several drugs are approved for the management of the disease.

The *Nature* study involved the

analysis of DNA taken from the white blood cells of 81 members of an Amish family residing in Pennsylvania. Because of their detailed family records and their avoidance of drugs and alcohol, the Amish have for many years been the subject of studies investigating the inheritance

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Soviet writer to discuss censorship during Foreign Language Week talk

Russian novelist, playwright and short story writer Vassily Aksyonov will deliver the keynote address for Foreign Language Week at 11 a.m. Wednesday, March 18, in Graham Chapel.

Foreign Language Week events, which are free and open to the public, feature plays, lectures, films and a panel exploring career options for foreign language majors. During the week, more than 1,000 high school students from the metropolitan area will visit the Washington campus to participate.

The keynote lecture, titled "Censorship and Circumspection: The Writer in the Soviet Union," is part of the University's Assembly Series.

A leading Soviet writer of the post-Stalinist generation, Aksyonov is the author of 13 novels and several short stories and plays that explore the rebellious nature of Soviet youth, the illusions and realities of Communism and the problems of the post-Stalin generation.

Aksyonov spent his youth in Stalin's labor camps, when his mother, noted historian Eugenia Ginzburg, was exiled to Siberia. Later, in Moscow, his attempt in 1979 to establish the uncensored periodical *Metropol* angered the Soviet government. In 1980, he moved to the United States to escape harassment stemming from the unauthorized publication in Italy of his novel *The Burn*.

A writer-in-residence at Goucher College and Johns Hopkins University, Aksyonov is a fellow of the Woodrow Wilson International Center and the Kennan Institute for Advanced Russian Studies.

Aksyonov's lecture is part of the University's Foreign Language Week, which is sponsored by the Assembly Series, the Faculty of Arts and Sciences, the Office of Admissions, the Office of Student Activities, Student Union and the departments of Chinese and Japanese, Germanic Lan-

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Bears picked for NCAA tourney; will host regional

Washington University's men's basketball team, ranked 17th in the nation with a 20-6 record, has received a bid to this year's NCAA Division III postseason tournament, which begins this Friday, March 6.

The Bears also were informed on Sunday by the NCAA and the South Regional advisory committee that Washington University and its new Field House would be the site of this weekend's four-team regional.

The South Regional gets underway at 6 p.m. on Friday with the Dixie Intercollegiate Athletic Conference champion North Carolina Wesleyan (22-6) playing Collegiate Athletic Conference champion Centre College (20-6). The Bears, who are top-seeded in the four-team regional, will battle the Southern Intercollegiate Athletic Conference champion Rust College (19-8) in Friday's nightcap at 8 p.m.

The regional finals will be held Saturday with a consolation game scheduled at 6 p.m., followed by the championship at 8 p.m.

"Having the first round action on our home floor makes it all that much better," said Washington Coach Mark Edwards. "By eliminating travel worries, lodging distractions and a foreign gymnasium, the home team gains an advantage. It's much easier to prepare for postseason play when you adhere to a common routine."

In 1986, seven of the eight Division III regionals and all four quarterfinal games were won by the host institution.

The Bears are making their first Division III appearance and their fourth NCAA postseason appearance overall. In 1963, '64 and '65, Washington competed in the College Division tourney, winning the '65 Southwest Regional.

"Since restarting basketball in 1981, it has been our goal to produce a competitive program at the national level," Edwards said. "Being selected for the NCAA tournament is a large step in that direction."

Since the tournament is an NCAA event, there is an admission charge to the regional. The Washington athletic department will sell a \$6 tournament ticket on Friday night only that covers admission for both nights. A \$4 ticket will be sold for Saturday night's championship game.

Washington students will be admitted free to each session when presenting their student I.D. Any faculty and staff member may purchase advance tickets at the athletic department beginning on Wednesday.

"With our student body leaving for the spring break, we hope to get some strong support from our faculty and staff for this event," said John Schael, athletic director.

If successful in winning the regional, Washington would then host the quarterfinal round against the Great Lakes Regional champion on Saturday, March 14. The next step then is the Final Four held in Grand Rapids, Mich., at Calvin College on Friday and Saturday, March 20-21.



The concept sketch of Raizell Alperin's camp installation, "Rustic Interior," includes a lighted bar sign, rock-life sofa and kiddie-pool footstool. The actual piece will be exhibited with seven other three-dimensional works in "Over the Sofa" March 8-22 in Bixby Gallery.

Sofas centerpieces of three-dimensional art

Eight life-sized works of three-dimensional art, incorporating sofas in their design, will be exhibited March 8 to 22 in Bixby Gallery, Bixby Hall. An artists' reception will be from 3 to 5 p.m. Sunday, March 8, in the gallery.

Bixby Gallery Director Libby Reuter calls the exhibit "a tongue-in-cheek comment on art in our homes." Works by the eight St. Louis artists range from a rock-like sofa with a lighted bar sign and kiddie-pool footstool, to a Victorian tableau set on a base of open encyclopedias with a blackboard behind it filled with scientific notations.

The artists selected for this juried exhibit, titled "Over the Sofa," are: Raizell Alperin, Patricia Degener, Linda Horsley-Nunley, Ron Leax, Joan Levinson, Margo Luisa, Tirzah Mutrux and Betsy Severson Nimock.

The curators are Angela Miller, Ph.D., and Claudia Rousseau, Ph.D., assistant professors of art and archaeology at the University. Financial assistance was provided by the Missouri Arts Council, a state agency, with support from the Regional Arts Commission.

Five of the works also will be exhibited March 30 to April 12 on the second level of the Saint Louis Galleria, Brentwood Boulevard and

Clayton Road in Richmond Heights.

"Over the Sofa" is an example of installation art, which emphasizes art as an environment rather than an object and actively involves the viewer in the art experience. To further illustrate this medium, the School of Fine Arts co-sponsored an installation art project with the St. Louis Public Schools' School Partnership program. St. Louis artist Alexis Wreden directed 130 students from city and county high schools in the creation of a work of art. The city students are from the Honors Art Program, McKinley, Sumner and Vashon high schools; the county students are from Affton, Clayton, Parkway South and Pattonville high schools.

The students installed their piece, made of 260 4-by-8-foot sheets of cardboard (two per student), in the art gallery of the Honors Art Building, 6593 Smiley Ave. Their exhibit is open to the public March 9 to 27.

Bixby Gallery hours are 10 a.m. to 5 p.m. weekdays and noon to 5 p.m. weekends. Saint Louis Galleria hours are 10 a.m. to 9:30 p.m. Monday-Saturday and noon to 6 p.m. Sunday. Honors Art gallery hours are 8 a.m. to 2 p.m. Monday-Friday.

1925 gypsy cabaret setting of light-hearted operetta revue

The Opera Theatre of Saint Louis will present "An Operetta Revue" at 4 p.m. Tuesday, March 17, in the Drama Studio, Mallinckrodt Center.

The program, a light-hearted revue featuring famous operetta scenes, is part of the Assembly Series and is free and open to the public.

Set in 1925 at a gypsy cabaret, the revue will feature both comic and sentimental songs from "The Desert Song," "Naughty Marietta," "The Land of Smiles" and other popular operas.

The performance, directed by Christopher Alden, will feature soprano Melanie Helton, tenor James Atherton, and baritones Thomas Goodheart and Gordon Holleman.

Alden, who works for opera companies throughout the United States, most recently directed "The Coronation of Poppea" for the Washington (D.C.) Opera. Helton has appeared with the Opera Company of

Boston, as well as the Santa Fe, Houston Grand, Tulsa, Washington and Baltimore operas. Atherton has sung more than 25 roles with the Metropolitan Opera in New York. Goodheart has performed with opera companies throughout New England, and Holleman recently appeared as Guiseppe in Opera Theatre's production of Gilbert and Sullivan's "The Gondoliers."

Opera Theatre of Saint Louis is one of the foremost regional opera companies in the United States.

The performance is generously sponsored in part by the CAMELOT/Special Projects Fund of the Arts and Education Council of Greater St. Louis, with additional support from the Assembly Series, Edison Theatre, the departments of Music and Performing Arts and the Office of Student Activities.

For more information on "An Operetta Revue," call 889-5285.

Cuban exile writer to give reading

Cuban exile writer Reinaldo Arenas will give a reading and commentary at noon Thursday, March 19, in Hurst Lounge, Duncker Hall.

The reading and commentary is part of the Assembly Series and is free and open to the public.

Arenas is the author of six novels and several short stories and plays that explore the social and political situation in Cuba and rural life in Latin America. Among his works are *Hallucinations*, an historical novel; and *El Central*, a book of poetry. His most recent publications include *Necesidad de libertad*, a collection of essays; and *Persecucion*, a book of five plays. Some of his books have been published in more

than 10 languages.

A leading Cuban writer, Arenas was shipped by the Castro government to the United States in the 1970s as a part of the Marielito group.

Arenas has been a Guggenheim Fellow and was awarded the Cintas Fellowship in 1986. He has served as visiting professor at Cornell University, Florida International University and the Center for Interamerican Relations. He lives in New York.

Arenas' reading and commentary are sponsored by the Assembly Series, the Brookings Forum, Student Union and the Department of Romance Languages and Literatures.

Foreign Language Week—continued from p. 1

guages and Literatures, Romance Languages and Literatures, and Russian.

Foreign Language Week

Tuesday, March 17 (French Day)

1 and 7:30 p.m. French Play, "Le malade imaginaire," by Moliere. Umrath Hall Lounge.

7 p.m. German Film, "Aguirre: Der Zorn Gottes." 210 Ridgley.

Wednesday, March 18 (Russian, Italian and Chinese and Japanese Day)

11 a.m. Keynote Address, "Censorship and Circumspection: The Writer in the Soviet Union," Vassily Aksyonov, Russian novelist. Graham Chapel.

Noon. Chinese Calligraphy. Mallinckrodt Center.

2 p.m. Career Panel Discussion. Lambert Lounge, Mallinckrodt Center.

3 p.m. Informal Discussion with Vassily Aksyonov. Women's Bldg. Lounge.

5 p.m. Italian Film, "The Garden of the Finzi-Continis." 210 Ridgley.

Thursday, March 19 (German Day)

10:15 a.m. German Play, "Leonce und Lena." Umrath Hall Lounge.

11:45 a.m. German Film, "Die weisse Rose." 210 Ridgley.

7:30 p.m. Russian Film, "Scarecrow." Audio Visual Room, Olin Library.

Friday, March 20 (Spanish Day)

9:30 a.m. Discussion with Cuban novelist Reinaldo Arenas. Women's Bldg. Lounge.

11 a.m. Spanish Play, "Sempronio." Graham Chapel.

Saturday, March 21

8 p.m. German Play, "Leonce und Lena." Umrath Hall Lounge.

For more information on Foreign Language Week events, call 889-5180.

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Students explore 'world beyond our borders'

In the early 20th century, studying abroad was considered the province of the rich. Affluent students flocked to Europe for the chic "Grand Tour."

But times have changed. Opportunities for international study are now available to all students who meet certain requirements, including those who receive financial aid.

Foreign study is a popular topic on campuses throughout the country. "Many students, when applying to college, ask about study abroad opportunities," says Sara Epstein, coordinator of study abroad programs for Washington University. "There is a growing awareness among students, parents, businesses and schools that Americans need to know more about the world beyond our own borders."

The College of Arts and Sciences offers students 14 official programs sponsored by various departments. Most of the programs are a full-academic year, with students earning up to 33 credits. Students who receive financial aid from Washington may transfer it to the programs.

For the 1986-1987 academic year, the college offers programs in China, Colombia, England, France, Germany, Greece, Israel, Japan, Spain and the West Indies. The students' activities range from anthropology study in England to exploring Chinese civilization in Nanjing. The programs are established at universities abroad, where international faculty teach the students. In several cases, the University also has set up foreign study programs in conjunction with other American institutions.

Among the arts and sciences foreign offerings is an exchange program in Colombia, which is sponsored by the Department of Romance Languages and Literatures with Pontificia Universidad Javeriana in Bogota. The college's programs also include a one-semester business internship in London for both liberal arts and business students. Students in the program study the operations of European businesses and work in a British firm.

As part of the year-long Internship Program in European Business, students spend the fall semester studying multinational business at the Ecole des Affaires Europeennes in Paris. They live in Paris and study with students from the European Economic Community. During the second semester, the liberal arts and business students intern with a company in France and earn 33 credits for the year's program.

James F. Jones Jr., Ph.D., professor and chairman of romance languages and literatures, says the internship is the first in the nation to link together an American research institution, a French business school and major European corporations. Jones and Linda B. Salamon, Ph.D., dean of the College of Arts and Sciences, instituted the program. "The program has attracted a great deal of attention in France, including inquiries from the American embassy in Paris," Jones says.

To be eligible for the college's programs, students must be juniors, maintain a B average, and, in most cases, competently speak a foreign language. Each program has additional requirements. Arts and sciences students must get advance approval from the dean for all international study programs, including those op-



Students attending a Spanish summer institute in Medellin, Colombia, help farmers with the corn harvest. The six-week Spanish institute is now held in Xalapa, Mexico.

erated by other universities.

On rare occasions, Washington seniors participate in the programs. However, they must secure special permission from the dean. The seniors often graduate in August because the programs aren't completed by mid-May.

Acculturation process

"When we set up a program in a foreign country," Epstein notes, "we seek to maximize the students' contact with foreign faculty, courses, students and the community. We avoid, in every case, programs where our students will be part of a little American island moved to a foreign setting."

Washington students may live in dormitories or apartments with students from the host country or with families. "Students need to become comfortable with the whole acculturation process," says Epstein. "That's a great benefit of the programs. The full-year requirement gives students the necessary time to fit into a foreign culture."

In addition to the arts and sciences programs, several schools offer University students foreign study opportunities, such as the business school's Executive MBA Program in Japan and the School of Architecture's Summer Studio Program in Barcelona, Spain.

Students also are able to study abroad during intensive summer language institutes, which are operated by our foreign language departments and taught by our faculty. The institutes follow the students' first year of foreign language study. After a student completes an institute, he or she is ready for the third-level of language study. The institutes are additionally designed to acquaint the students with foreign culture.

Romance languages and literatures sponsors six-week language institutes in central France; Xalapa, Mexico; and beginning summer 1987, in Arezzo, Italy. In addition to first-year students, an advanced group also participates in the Mexico institute. The advanced students pursue Spanish literature studies upon completion of the program.

Only Washington "compresses an entire intermediate language program into a six week, day and night,

every breath you take, situation," says Jones. In 1979, Jones initiated the University's first summer institute at the Chateau de La Herce, an international student conference center in France's Loire Valley.

The Department of Germanic Languages and Literatures sponsors a summer language institute in Goettingen, West Germany. The eight-week institute is in its fifth year. Washington students enrolled in the institute live in the dormitories at the Goethe Institute, a Wilhelminian mansion in Goettingen, or in nearby apartments.

Lynne Tatlock, Ph.D., assistant professor of German and director of the institute, says 21 students will participate this summer. "That's the highest enrollment we've had so far. Students are beginning to see the importance of expanding their education. They're taking a broader view and are serious about mastering a foreign language," Tatlock, who also serves as director for the Germany Year Abroad Program in Tuebingen, says enrollment in that program has increased as well. Nine students will study in Tuebingen next fall.

Academic benefits

Washington's study abroad programs have grown tremendously since the early 1960s, when the University started its first international program in France. One reason for the growth, says Epstein, is that "the University recognizes that international experience of all kinds is important to a student's education. Bringing in exchange faculty from abroad is one of the ways we accomplish this. Taking in students from abroad is another means of getting more international experience and focus to our University. And letting our own faculty and students have opportunities to live and study abroad is yet another way."

Jones says Washington's international programs accentuate the University's first-rate reputation around the globe. "A university like this, which sets its sights very high, cannot run the risk of parochialism." In reference to the programs sponsored by romance languages, he says, "This department has bases outside the Washington University campus. It's an opening of doors from Washing-

ton University to the world in which we live." Participation in the department's French Year Abroad Program has tripled since 1977.

Many of the arts and sciences programs offer students a chance to improve foreign language skills. "To be able to think, and yes, even dream in a foreign language, you need to be immersed in it, surrounded by it, using it," Epstein notes.

Julie D. Markowitz, a Washington graduate who participated in the Internship Program in European Business, agrees. "When you live in a foreign country, you learn the language well. In Europe, the only time I spoke English was when I chatted with American friends. I lived with a French family. I quickly became fluent in French." She graduated in May 1986 with a bachelor's degree in French and international relations.

As part of her internship, Markowitz worked for a company that manufactures baking machinery. "It was really interesting. I was in charge of all the American and Canadian accounts. I made sales. I translated business documents. With the American accounts, I served as an interpreter for my French bosses."

"I now work for a small international investment bank in New York. Our main office is in France. I constantly use my French with customers. The internship taught me how to deal with French business people. That's an asset in my job."

"All of the study abroad programs exist for the academic benefits they yield," Epstein emphasizes. "We are interested in our students participating in academic experiences abroad. I am not a travel abroad office. I am not a camping abroad office. Study abroad is not meant to be an opportunity for students to see the world and get credit for it — without getting some academic benefits."

Schools' offerings

In addition to the College of Arts and Sciences foreign offerings, schools at Washington sponsor the following international study programs:

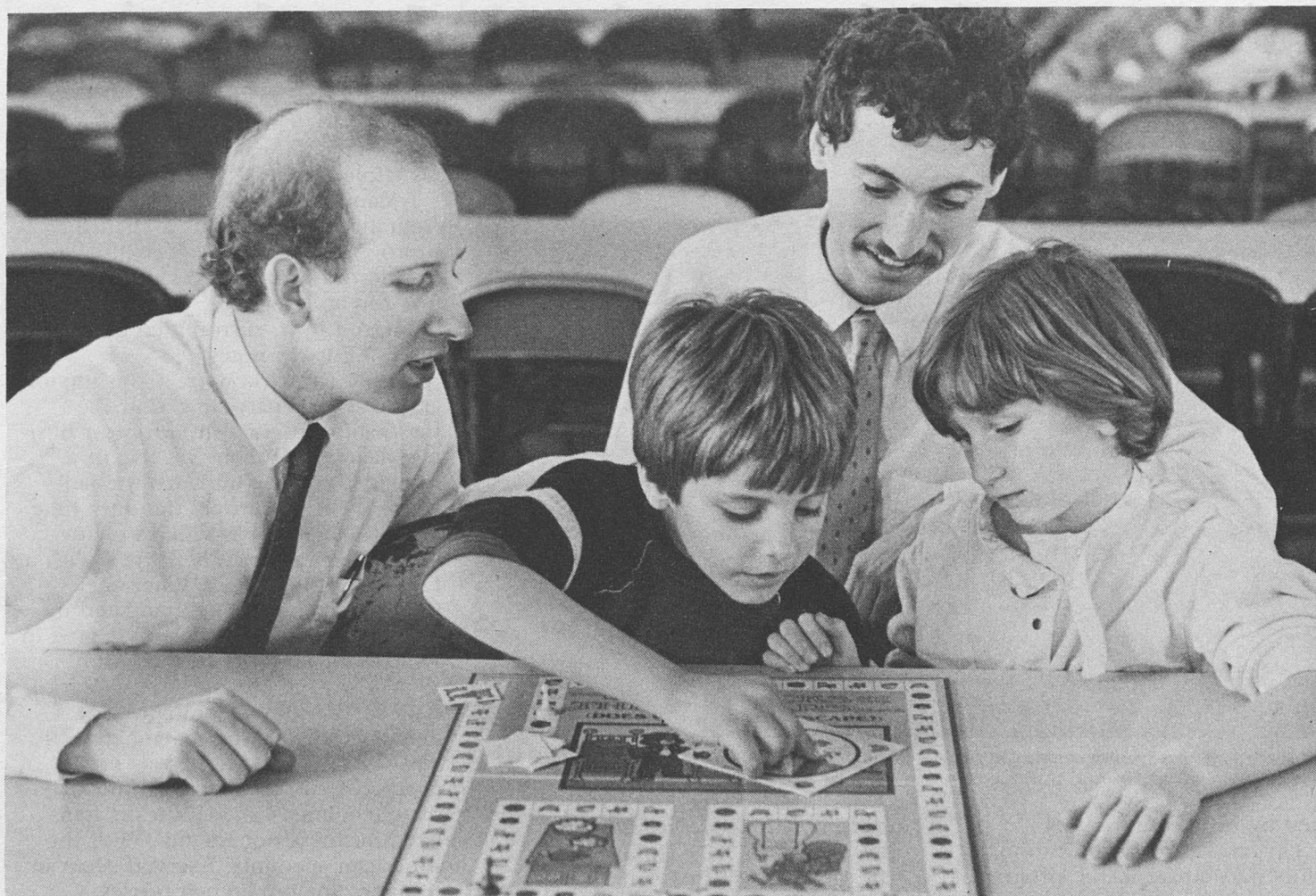
- The School of Architecture holds the Summer Studio Program in Barcelona, Spain, for graduate students. As part of the two-month program, approximately 15 students work in the Barcelona design studio studying and sketching European architecture. The students also attend a seminar on Spanish architecture and tour Europe. This year, for the first time, the students will spend three weeks in Italy studying Italian sculpture and living in an Arezzo monastery.

- The School of Business offers second-year students in its Executive MBA Program a week of intensive study in Japan. As part of a required course titled "Management 708: Management in a World Environment," the 1987 class will visit Tokyo May 10-15. The class will tour major Japanese corporations such as Nippon Kokan Keihin Works, the second largest Japanese steel company; Dentsu Inc., one of the world's largest advertising agencies; and Mitsubishi Trading Co., whose business accounts for 12 percent of Japan's gross national product.

Other scheduled activities will

Continued on p. 8

MEDICAL RECORD



Second-year medical students Rudy Fedrizzi (left) and Ken Adams spread the word about good health habits at Bayless Elementary School.

Tapping medical know-how

Future doctors take good health message to youth

On one outing, they passed around HEALTHMAN coloring books while explaining the dangers of smoking and the benefits of good hygiene to a class of giggling seven year olds.

The next day, they discussed AIDS with a solemn group of junior and senior high school students, some of whom admitted to being sexually active and scared.

They are members of the Youth Health Education Project (YHEP): 20 students from the School of Medicine who want to do more with their education than just take tests and wait for the moment when they finally get to write "M.D." after their names.

Last November, with help from the local division of the American Cancer Society, they formed a speakers bureau. Their goal? To share what they know about preventive health care with young people in the St. Louis area.

Alternating speaking assignments and usually working in groups of two or more, YHEP members discuss everything from general health care to specific concerns — such as drug abuse or how to conduct self-exams for breast and testicular cancer — with health classes, after-school groups and scouting troops.

"We wanted to apply our classroom knowledge to real-life situations," says Rudy Fedrizzi, a second-year student and YHEP's founder. "We wanted to have a positive impact on community health and a taste of what it's like to relate to patients — things we don't have a chance to do in school. Medical students are a resource just waiting to be tapped."

These feelings led Fedrizzi and his wife, third-year student Heidi Rinehart, to offer their ideas and services to the American Cancer Society, which agreed to handle their

bookings and provide them with support, educational literature and materials such as coloring and comic books.

Next, Fedrizzi sent a recruitment letter to his fellow students.

"The idea appealed to me, but I didn't respond right away," says Ken Adams, a second-year student. "I mean, between being in school all day and studying all night, who had the time? But I couldn't pass up the chance. I figured, I've got some medical know-how and I'd like to put it to use."

Matt Cary, also in his second year, agrees. "It was positive and I really wanted to do it. In college, I did lots of volunteer work with kids — I was a Big Brother and worked with church groups. Once I got to med school, though, there was so much work that I stopped doing community service stuff. I missed it. When Rudy's letter came, I was ready."

The medical school faculty also pitched in by donating slides that show the long-term effects of smoking on lungs. "Dr. Peter Tuteur is our biggest booster, and other faculty members have been very helpful," says Fedrizzi. "It shows that there's a deep interest in public health, not just theoretical matters, among the faculty."

YHEP presentations are tailored to the age levels, needs and interests of each group. "No two talks are alike," says Adams. "Each member brings his or her own style and talents to the presentations. We talk, show slides and answer questions. And the kids are great: the older ones are sharp and well-informed; the younger ones are sometimes very concerned about how to convince parents or older brothers and sisters to stop smoking or abusing alcohol."

It's the younger children that

YHEP particularly wants to reach.

"If we can talk to them before they reach junior high, when they're old enough to start making decisions but before they've been overwhelmed by peer pressure, we probably have a better chance of getting through," says Cary. "By the time you're in high school, chances are you've already been smoking down at the mall. It might be too late."

"Kids are impressionable," adds Adams. "There's a lot of misinformation out there, a lot of negative influences. Who's to set them straight? We hope we can help when parents, teachers and doctors can't. We're not that much older than they are, and we make it clear that we're also students, still learning. Because we're not authoritarian or threatening, maybe they're a little more willing to listen to us."

YHEP is now booked until April. Eventually, Fedrizzi hopes that all 20 members will be doing at least one presentation per month, thus reaching about 2,500 kids each year. He also hopes that YHEP survives long after he and his friends graduate.

"What we're trying to do," says Fedrizzi, "is to excite kids about their health, to let them know that by respecting themselves and making responsible choices, they can take control of how they feel right now and later on. That's our message."

Evidently, that message came across loud and clear to a fourth-grader at Keyser Elementary School in Kirkwood. "Dear YHEPs," she wrote. "Thank you for sparing your time to talk to us. I now know that I will never smoke, and I wonder why people do? Thank you for the HEALTHMAN coloring book and telling us how to take care of ourselves. Your friend, Karen. P.S. I know you will be great doctors."

Tony DiMartino

Lung expert will deliver Flance lecture

An internationally recognized expert on the structure and function of the human lung will deliver the 11th annual I. Jerome Flance Lecture March 26 at the School of Medicine.

Ewald R. Weibel, M.D., professor of anatomy and chairman of the Department of Anatomy at the University of Berne, Switzerland, will discuss how lung structure affects gas exchange. His talk will begin at 9:30 a.m. in Clopton Auditorium.

The Flance Visiting Professorship in Pulmonary Medicine was established in 1976 by Flance's friends and colleagues to honor his outstanding contributions to teaching and to spur interaction between students and the best available minds in the field. Flance, who received his medical degree from the School of Medicine in 1935, joined the faculty in 1942 and is currently clinical professor of internal medicine.

Weibel is known as a pioneer in exploring human lung structure using microscopic techniques and detailed mathematical reconstruction. His work has helped develop a means of measuring structure-function correlations. Using methods originally developed for the lungs, he has also helped advance new ways of using microscopy to understand the structure of complex organs and cells.

In addition to delivering the Flance Lecture, Weibel will participate in medical rounds and conferences during his three-day visit to the medical center.

Sommers named first recipient of oncology award

A fellow in the obstetrics and gynecology department at the School of Medicine has been chosen as the first recipient of the Oncology Fellowship Research Award from the Society of Gynecologic Oncologists (SGO).

Gara M. Sommers, M.D., a second-year fellow, was one of 10 gynecologic oncology fellows in the United States considered for the award. Created by the SGO to encourage promising young doctors to pursue basic cancer research, the award carries a \$5,000 grant to support the recipient's work.

Sommers was honored for her research to treat cancer cells by using drug analogs, which are chemical compounds that are like certain drugs in structure but different in composition. Specifically, Sommers is testing various analogs of a powerful chemotherapy drug, Adriamycin, and trying to attach them to monoclonal antibodies that can be aimed directly at ovarian cancer cells. This direct delivery method is designed to treat tumors effectively while bypassing the heart, liver and kidneys.

The research was supported for the last three years by the Missouri chapter of the Fraternal Order of Eagles. Adria Corp., which manufactures Adriamycin, contributed large quantities of the drugs to the project.

Sommers' lab training was supervised by Frederick Sweet, Ph.D., professor of reproductive biology at the School of Medicine.



The Search for Mind: A film crew from the British Broadcasting Corp. was on the Hilltop and Medical School campuses last week shooting footage for "The Search For Mind," a 13-part series, which delves into current research on the brain and mind. Lee Robins, Ph.D., professor of sociology in psychiatry at the School of Medicine, will be featured on the "Addictions" program in the series, discussing her research on substance abuse. The series is a collaborative venture between the BBC and WNET/Thirteen in New York. It will air in the fall of 1988.

Manic depression— continued from p. 1

and genetic bases of psychiatric disorders.

Of the 81 subjects tested, 19 were diagnosed as having manic depression. All 19 manic depressive individuals were found to carry a specific identifiable gene marker on the tip of the short arm of the 11th chromosome.

"There is less than a 1 in 1,000 chance that this correlation is due to chance rather than the actual existence of a gene for manic depression on the 11th chromosome," Gerhard said. "There were some individuals in this study population who had this particular form of chromosome 11 and were beyond the age of onset for manic depression — yet they did not seem to have the disorder. We can therefore assume that some additional factors activate or modulate the expression of the gene. It is possible that those factors could be environmental, genetic or a combination of both."

"It is important to remember," added Gerhard, "that the presence of this particular gene does not automatically mean its carrier will become manic depressive. Also, we must perfrom similar analyses of other pedigrees before we can estimate the prevalence of chromosome 11 involvement in major affective disorder."

Gerhard further stated that "What we have found is the general location of a gene that most certainly does predispose to manic depression, but quite likely it is not the only

gene carrying a risk for that disease. Depression is so diversified that other genes contributing to it probably exist."

The strategy used to identify the location of this particular gene is an extension of genetic linkage methods successfully applied to several other diseases over the past few years. Using these techniques to analyze human chromosomes from specific populations, scientists have recently determined that the gene for Huntington's disease is on chromosome 4, the gene for cystic fibrosis is on chromosome 7, the gene for an inherited form of Alzheimer's dementia is on chromosome 21, and the gene for Duchenne muscular dystrophy is on the X chromosome.

In her future work at Washington, Gerhard will be deciphering the exact genetic identity of the depression gene. Because every gene is a template, or mold, from which a certain protein is produced, purification of the gene and the protein it encodes is likely to generate a burst of new information on the chemical basis of manic depression.

"I am really excited about the importance of Dr. Gerhard's findings because they provide the first really promising approach to understanding the genetic and molecular reasons for psychiatric disorders," said Daniel Hartl, Ph.D., James S. McDonnell Professor of Genetics and head of the genetics department. "Research of this type will provide future treatments that we can scarcely foresee right now. The genetics department is very proud to have attracted a person of Dr. Gerhard's ability and potential."

First in United States

Japan exchange program to foster research collaboration

Nine faculty members from the School of Medicine will travel to Japan April 13-15 to inaugurate a rare exchange program between researchers at Washington University and at RIKEN, one of Japan's preeminent government-sponsored research institutions.

Washington is the first American university to form such an exchange agreement with a Japanese research institute. In 1986, the Japanese government established a similar international exchange program between RIKEN and the Pasteur Institute in Paris.

The Washington agreement is with the Tsukuba Life Science Center of RIKEN, which traditionally has conducted chemical and physical research but has expanded its scope to include biological studies. The exchange program is designed not only to foster collaboration in research, but also to encourage scientists to share techniques and teaching skills, both in joint meetings and by exchange visits.

"Many laboratories at our medical school and throughout the United States have benefited enormously from the work of Japanese colleagues," says David Schlessinger, Ph.D., who has helped arrange discussions for the exchange program. "Very few Americans, though, have had the benefit of a period of work at a strong Japanese laboratory, and true American-Japanese research collaborations have been relatively infrequent."

"This agreement provides a mechanism for a real exchange program, and is a spearhead for what can become an increasingly fruitful interaction. We are delighted to have Washington University as the first

American institution designated for such a relationship."

The April 13-15 opening symposium in Tokyo is one of two inaugural events; next spring, Japanese scientists will attend a sister symposium at Washington University. At the Tokyo symposium, researchers from RIKEN and Washington will deliver scientific presentations on control of cellular interactions, with special emphasis on the immune system and growth regulation of cells. The meeting will be open to the public and is expected to draw its audience from both industrial and university laboratories.

Faculty members who will represent the School of Medicine in Japan include Harvey R. Colten, M.D., Harriet B. Spoehrer Professor and head of pediatrics; Joseph M. Davie, M.D., Ph.D., professor and head of microbiology and immunology; Thomas F. Deuel, M.D., professor of biological chemistry and medicine; Elliot L. Elson, Ph.D., professor of biological chemistry; and Eugene M. Johnson Jr., Ph.D., professor of pharmacology.

Others to speak at the symposium are William H. Daughaday, M.D., Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism in medicine; Philip Needleman, Ph.D., Alumni Professor and head of pharmacology; Carl W. Pierce, M.D., Ph.D., Wilma and Roswell Messing Professor of pathology and professor of microbiology and immunology; and David Schlessinger, Ph.D., professor of microbiology and immunology and medicine.

Arrangements for the exchange program were made by Schlessinger and Davie, with Y. Ikawa, M.D., Ph.D., and F. Imamoto, Ph.D., of RIKEN.

Study on exercise and aging needs volunteers aged 60 to 70

Can exercise help reverse the aging process? To find out, researchers at the School of Medicine need volunteers for a long-term study on how regular exercise affects older adults.

The research project is funded by a five-year, \$2.9 million grant from the National Institute on Aging, part of the National Institutes of Health. Led by John O. Holloszy, M.D., professor of applied physiology in the Department of Internal Medicine, the study is the most comprehensive of its kind.

Researchers will try to learn whether exercise helps reverse some of the deterioration in function that occurs with aging, and if so, how and to what extent. They will also try to learn whether certain physical changes, for example high blood pressure, high blood sugar levels and poor cardiopulmonary function, are inevitable signs of aging or simply the results of inactivity.

Volunteers must be between the ages of 60 and 70, non-smokers, healthy but sedentary, and free from medication for hypertension or heart problems. They must be willing to commit themselves to an 18-month

program of vigorous exercise, five days a week for one hour each day.

Volunteers will undergo a screening exam and tests to determine current fitness levels, glucose tolerance, cholesterol levels and hormonal response to exercise. Test results can be forwarded to personal physicians by request. Some participants will exercise in medical center facilities Monday-Friday at any time between 2:30-5:30 p.m., while others will serve as a non-exercising control group.

Participants will be re-tested periodically and again at the end of the study. Exercisers' test results will be compared to those of non-exercising controls, and also to test results from additional control groups of exercising and non-exercising young adults.

Volunteers will receive free physical exams and individually prescribed, physician-supervised exercise routines. All tests are free of charge. Volunteers will be carefully monitored and evaluated throughout the 18 months.

More information is available through Joanie Schultz at 362-2397.

NOTABLES

Solon Beinfeld, Ph.D., associate professor of history, was a consultant on the film "Partisans of Vilna," which will be shown March 8-10 at the Tivoli Theatre, 6350 Delmar Blvd. The Holocaust documentary concentrates on the resistance of members of the Jewish community of Vilna, Lithuania, once nearly 60,000 strong, which was decimated. It chronicles and examines the extraordinary efforts of the few who survived.

Saul Boyarsky, M.D., J.D., gave a talk titled "Disclosure and Informed Consent: Legal Risks in Clinical Practice" at the American College of Legal Medicine and the University of South Florida College of Medicine Seminar on "Managing the Risks of Clinical Practice," held Feb. 5 in St. Petersburg, Fla.

Arthur E. Carlson, Ph.D., professor of accounting, recently was honored by the board of the Friends of the University City Public Library for his many years as a volunteer there. The Friends made a contribution to the School of Business in Carlson's honor.

Alice Fugate, academic services administrator at the Center for the Study of Data Processing (CSDP), was invited to give a presentation on careers in the computer field for the Data Processing Management Association student chapter at Meramec Junior College. As part of a panel, Fugate discussed job-hunting strategies and career development for computer professionals. She also described the student internship program she developed at CSDP, and how internship experience has made it easier for Washington University students to enter the data processing field.

James W. Jones, Ph.D., visiting assistant professor of Germanic languages and literatures, published an article on homoeroticism in three dramas of the early Weimar Republic. The article appeared in the collection of papers given at the Hans Henny Jahnn Colloquium in Siegen, West Germany, 1986. He also contributed two poems to the new anthology *Heartpieces: Wisconsin Poets for AIDS*.

Charles R. McManis, J.D., professor of law, has written an article titled "Satellite Dish Antenna Reception: Copyright Protection of Live Broadcasts and a Doctrine of Anticipatory Infringement." The article will appear in the Columbia Journal of Law and the Arts. The article is based on a presentation McManis made as a panelist for a joint session of the Association of American Law Schools' meeting last year. McManis also has a new contract with the West Publishing Co. to produce a second edition of *Unfair Trade Practices in a Nutshell*. The expected publication date is spring 1988. In addition, he appeared on a KTVI-Channel 2 evening newscast Dec. 30 and commented on the liability of social hosts when their intoxicated guests are involved in accidents, and the Missouri Dram Shop Act, which concerns the liability of tavern owners when their patrons are involved in accidents.

A. Peter Mutharika, J.S.D., professor of law, declined to accept a fourth term as president of the International Third World Legal Studies Association at the association's annual meetings held in Los Angeles. He will remain a member of the board of directors of the association. He was succeeded as president by Jeswald Salacuse, dean of the Fletcher School of Law and Diplomacy, Tufts University. Later in the spring, Mutharika will take part in a symposium of law professors to be held at Cumberland Lodge, Windsor, England. The symposium is being organized by the Commonwealth Legal Education Association.

Randolph D. Pope, Ph.D., professor of Spanish, read a paper, titled "The Different Architectures of Metafiction in Juan Goytisolo and Luis Goytisolo," and chaired a special session, "An Evaluation of Unamuno's Work, Fifty Years after His Death," at the Modern Language Association Convention, held in New York.

Kimberly Ann Rice, a senior from Downers Grove, Ill., recently was named a 1986 Intercollegiate Tennis Coaches Association (ITCA) Scholar Athlete for her efforts on the tennis court and in the classroom. She was honored for her "... varsity tennis accomplishments and outstanding scholastic achievements with her team and institution during her collegiate career." To be considered for this honor, an athlete must be a varsity letter winner, have a minimum cumulative grade point average (GPA) of 3.50, and be a junior or senior. Rice has lettered in tennis four years and maintains a 3.60 cumulative GPA while pursuing a degree in psychology. Co-captain for the second consecutive year, Rice boasts a 23-19 (.548) singles and 32-28 (.533) doubles record for a career record of 55-47 (.539) at Washington. This year 11 scholar athletes were chosen from Division III institutions. Rice is the second Washington player to receive this honor, the first being Kim Templeton in 1984.

Ervin Y. Rodin, Ph.D., professor of applied math and systems science, was editor-in-chief of *Computers and Mathematics With Applications Volume 12B, Numbers 1-4: Symmetry: Unifying Human Understanding*, which has been named the most outstanding single issue of a journal in the Eleventh Annual Professional and Scholarly Book Awards sponsored by the American Association of American Publishers. More than 200 professional and scholarly works ranging across the spectrum of science, technology, business and humanities were nominated for the awards competition.

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The *Washington University Record* will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070. Please include a phone number.

Paris Prize-winner named Steedman architecture fellow

A New York City architect has been selected the recipient of the Steedman Fellowship in Architecture at Washington University.

George Queral, born in Havana, Cuba, was named by the Steedman Fellowship Governing Committee as the 1987-88 recipient. Nestor Santa-Cruz of Washington, D.C., and Lorenzo Lucas of Providence, R.I., were selected first and second alternate, respectively.

The Steedman Fellowship provides \$11,000 to an architect for a year of travel and architectural study abroad. Applicants for the fellowship must be aged 21 to 33 and a graduate of a professional accredited architecture program. The winner is recommended as a Fellow to the American Academy in Rome.

Queral is an architectural designer for Skidmore, Owings and Merrill in New York City. His drawing was selected from 159 submitted in the national competition. The project involved designing an office for an architecture society within an existing building with specific requirements established by the governing committee.

Queral is a graduate of the Miami Dade Community College and the Boston Architectural Center. In 1985, he was awarded the Paris Prize, an international competition sponsored by the National Institute for Architectural Education. He also has received two first-prize awards from the Boston Architectural Center for his designs of a New Boston Tea Party Museum and a hotel in Long Warf.

Queral is the designer for the

Islamic Cultural Center in New York City, a complex which will include a mosque, school building and library. The first Islamic mosque to be built in Manhattan, the structure will accommodate 900 people and will serve members of the United Nations diplomatic core.

Founded in 1925, the Steedman Fellowship in Architecture was named for James Harris Steedman, an 1889 graduate of Washington. Steedman died after serving in the U.S. Naval Reserves in World War I as a first lieutenant on the U.S.S. Oklahoma. The fellowship was established in his honor by the Steedman family.

Jurors for the 1987-88 Steedman fellowship were Jerzy Soltan, Nelson Robinson Professor Emeritus of Architecture and Urban Design, Harvard University; Colin Dollimore, an architect from London and visiting professor at Washington's School of Architecture; James A. Murphy, profession and industry editor, *Progressive Architecture*; Thomas A. Teasdale, president, St. Louis Chapter AIA; William Turnbull, an architect from San Francisco, representing the American Academy in Rome; and Bartholomew Voorsanger, of Voorsanger & Mills, Architects, New York.

Members of the governing committee are Fred Guyton, president and chairman of the board of Peckham, Guyton, Albers and Viets Inc.; Louis R. Sauer, president of Louis R. Sauer & Associates Inc., representing the St. Louis Chapter of the American Institute of Architects; and Constantine E. Michaelides, dean of the School of Architecture.

NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

"If you are well qualified, you should have no trouble finding a graduate (engineering) school willing to support you while you pursue your doctorate and a college willing to hire you when you have earned your advanced degree," says James M. McKelvey, Ph.D., dean of the School of Engineering and Applied Science. McKelvey's comments, in the January issue of *Graduating Engineer* magazine, were part of a four-page article urging engineering students to consider teaching.

"I predict that by the year 2000, American physical education will be so splintered by subspecialties that professionals in the field will be virtually unable to communicate with each other," says Lynn C. Imergoot, assistant athletic director, in the Jan. 1 issue of the *Journal of Physical Education and Recreation*. "There will be little interest in joining a common professional organization," she adds. "There will be a proliferation of professional journals, and in-

tramurals will be separate from physical education, which is separate from athletics, which is separate from dance, etc."

"The U.S. should get out of the loan business," says an Op-Ed piece by Thomas J. DiLorenzo, Ph.D., visiting professor at the Center for the Study of American Business in the Jan. 30 edition of the *Philadelphia Inquirer*. DiLorenzo says that delinquent government loans have more than doubled since 1981, costing each taxpayer \$500. He believes that selling off the federal government's loan portfolio would save taxpayers millions per year in ineffective government collection activities.

"When the jungle turns to wasteland" is the headline of an article in the Feb. 22 *New York Times* regarding jungle deforestation. Peter H. Raven, Ph.D., Englemann Professor of Botany and director of the Missouri Botanical Garden, says this is a "biological catastrophe." Deforestation contributes substantially to carbon dioxide in the atmosphere, which causes temperatures to rise. But the most serious global problem that results will be the extinction of as many as one million species of biological specimens.

OPINIONMAKERS

Davis proposes income-contingent student loan program

Opinion pieces written by the faculty have appeared in newspapers nationwide. These commentaries on national and international current issues have been published in such publications as The New York Times, The Wall Street Journal and The Christian Science Monitor. The Record will reprint selected op-ed pieces that have appeared in major publications.

By James W. Davis, Ph.D.
Professor of political science
(Reprinted from the Chicago Tribune)

In the budget it sent to Congress, the Reagan administration requests some \$600 million to fund its newest version of a student loan program. New, but not improved. The amounts that can be borrowed are large and market rate interest will be charged. Although billed as income contingent, the loans make a mockery of that concept. Only the payment schedule is income contingent. Every penny borrowed under this new plan must sooner or later be repaid. The impact of these loans on both individuals and institutions will be harsh. A sensible substitute would allow some portion of an educational loan to be canceled if income after graduation is low. Then the loans would deserve to be called "income contingent."

Under the administration's proposed program, up to \$4,000 could be borrowed in each of the first two years of college and up to \$5,000 in each of the next two years. For graduate and professional study, as much as \$10,000 a year could be borrowed. For all of one's higher education, up to \$50,000 could be borrowed. Repayment would start shortly after graduation and the size of the installment payments would be linked to income. In no year would the repayments amount to more than 15 percent of a graduate's income.

That's the good news. The other news is that interest would not be subsidized; interest will start accumulating as soon as the first loan is made and accumulate as long as there is an unpaid balance. It will be easy to go into debt, and for many it will take a long time to get out.

The really bad news is that the president's budget calls for the elimination of subsidized student employment (the work-study program) and for a reduction in grant and subsidized loan programs. This loan program is the cheap centerpiece of the administration's educational assistance program. That is ironic.

Only three days before the administration's college loan program (budget version) was publicized, the Joint Economic Committee of Congress issued a report expressing concern about the increasing number of students going deeply into debt to pay for their college education. Paying for college is significantly more difficult than it was only a decade ago and, the report found, an increasing part of the cost of college must be paid by borrowing. Over the last decade, borrowing has quintupled. That has set alarm bells ringing.

We do not know nearly enough about the impact on careers and lifestyles of educational debt. We do not know as much as we should about

the effect the prospect of debt has on the decision to go to college, or on the choice of college. No one believes that loans have no effect. But what is a cause for concern in Congress seems a matter of small consequence in the administration.

Yet consider the impact of the administration's program. An undergraduate receiving a first degree could graduate owing as much as \$18,000. An additional two years for an MBA could increase the debt another \$20,000. So could two years for a master's degree in social work. Three years for a law degree would add \$30,000 of debt. Work for a Ph.D. or M.D. would yield even more handsome debts to go with the diplomas.

Leaving aside the financial horror of a well-educated couple marrying (the household debt could approach \$100,000 before the first appliance is plugged in), consider the impact on different careers. A new MBA on Wall Street may be able to pay off a high educational debt with the first year-end bonus. A new associate in a New York law firm would have no reason to feel hard-pressed. But how about the teacher, or social worker, or civil servant, or Army officer, or artist? Such former students (the children of most of us) may be years paying off their school debt, and the interest meter keeps ticking. And remember, starting this year the interest on educational debt is not

tax deductible, thus adding injury to injury.

A perverse result of all this is that those who go into lower-paying occupations may wind up paying more for their educations. The monthly payments will be smaller, but they will go on longer and interest on the unpaid balance will keep adding up. Bizarre is a word that comes to mind. We should want to provide incentives for bright young people to go into teaching, into research, into the arts, into public service, into the armed forces. The loan program now proposed by the administration will discourage entry into anything but the most lucrative careers.

As part of its revision of the president's budget, Congress should consider a serious income-contingent loan program. In such a program the amount of loan to be repaid would be contingent on the income of the borrower. One possibility would be a loan program with a fixed term and fixed percentage of income to be repaid. A well-compensated attorney or physician would be expected to repay the loan in full. A modestly compensated lawyer working as a public defender would not. A successful MBA would repay any borrowing in full. A first-grade teacher would not.

What this proposal illustrates, and what the administration's proposal ignores, is the need to link the

amount of total repayment, not just the size of monthly payments, to future earnings. Of course college graduates earn more, on average, than non-graduates and should be expected to pay something. But there is an enormous difference in earnings between, say, a Peace Corps volunteer or pre-school teacher and a successful money manager or merger-maker. An attractive income-contingent loan program would recognize such differences.

But even a serious income-contingent loan program, as opposed to a mock program, is second best. What is vitally needed is a way to slow, then reverse, the growing dependence on loans to finance higher education. Loans may discourage education and skew the choice of career. Loans may appear particularly onerous to members of minority groups and to women. Further, loans ignore the social value of education. Loans suggest that education is just another private consumer good. And that is nonsense. Education is vital for the health of our economy and society. By cutting grants, employment and subsidized loans, the administration does the nation a disservice.

Coping with the cost of higher education by pushing loans and making their terms easier but more expensive is unimaginative and unlikely to work for very long. It is an idea that might have come from Detroit.

World-wide dancers reunite in Edison performance

The St. Louis Dancers (formerly the St. Louis Repertory Dancers) will present a spring concert at 8 p.m. Friday and Saturday, March 20-21, and at 2 p.m. Sunday, March 22, in Edison Theatre.

St. Louis Dancers, a company of professional dancers and gifted choreographers, are dedicated to an eclectic repertoire marked by individualism and variety.

The performance will feature guest artist Janis Brenner, an award-winning choreographer and former lead dancer with the Murray Louis Dance Company of New York. Brenner has performed throughout the world and has appeared with Rudolph Nureyev in performances in New York, Paris and London. She received the dance video award at the New York Dance on Camera Festival in 1986.

Brenner will be reunited with Michael Ballard, artist-in-residence at Washington University and Brenner's former partner in the Murray Louis Dance Company. Ballard has taught and performed in the United States, South America, Europe, North Africa and China. He was a soloist with the Murray Louis Dance Company and a dancer and assistant artistic director with the Nikolais Dance Theatre of New York. Ballard co-authored a book with Kitty Cunningham, *Conversations with a Dancer*, which was published in 1980.

The program will include choreography by Mary Wigman, the great pioneer of German modern dance; Murray Louis, world-renowned New

York choreographer; Gale Ormiston, a member of the St. Louis Dancers, a former dancer with Nikolais Dance Theatre and artist-in-residence at Washington; and Annelise Mertz, professor of dance at Washington and founder and artistic director of the St. Louis Dancers.

Brenner will perform Wigman's historic dance solos "Pastoral" and "Dance of Summer." Ballard and Brenner will appear together in two duets from Louis' "Cleopatra," which originally was commissioned by the Royal Danish Ballet and performed in this country by the Jose

Limon Dance Company. Ormiston's theatre piece "Sequitir" will feature a collage of the music of Elmer Bernstein and Wolfgang Amadeus Mozart. Mertz has expanded her popular piece "Ceremonial Rites" to include a section for women, in effect creating a world premiere.

Tickets for the St. Louis Dancers' performance are \$10 to the general public; \$8 for senior citizens, Washington faculty and staff; and \$5 for students.

For ticket information, call the Edison Theatre box office at 889-6543.

Mertz celebrates 30 years here

The St. Louis Dancers upcoming performance marks the 30th anniversary of Annelise Mertz's association with the Washington University dance division of the Performing Arts Department.

Mertz, founder and artistic director of the St. Louis Dancers, also established and developed the University's dance program, including a creative dance program for children and the Washington University Summer Dance Institute. She also is founder of Dance Saint Louis, an organization that sponsors the appearances of professional dance companies in the St. Louis area.

A native of Berlin, Germany, Mertz has studied Laban and Wigman technique and theory, Vaganova and Chichetti methods, character dance,

Spanish dance and Labanotation. She studied with Kurt Joos at the Folkswangschule in Germany, and with Jose Limon, Alwin Nikolais, Hanya Holm and Merce Cunningham in the United States. She has taught and performed internationally and was selected master teacher by the National Endowment for the Arts.

She has performed with the Joos Dance Theatre in Europe, the Berlin State Opera Ballet, and the Municipal Theatres of Dusseldorf and Darmstadt.

Mertz now dedicates her time to teaching and choreographing. She has created more than 40 choreographies, including pieces for the New Music Circle, the Opera Theatre of St. Louis and the Riverside Dance Festival in New York.

CALENDAR

March 5-21

LECTURES

Thursday, March 5

11 a.m. African Forum Series, "The Tie That Binds: Relations Between Africans and African-Americans," an open discussion. 349 McMillan.

4 p.m. Central Institute for the Deaf (CID) Research Seminar, "Spatial Temporal Transformations in the Vestibular Ocular Reflex," Stephen Highstein, prof. of otolaryngology, WU medical school. Second floor aud., CID Research/Clinics Bldg., 909 S. Taylor Ave.

4 p.m. Public Affairs Thursday Series, "Editing an Editorial Page," James W. Davis, WU prof. of political science. Eliot 200 C & D.

4 p.m. Latin American Studies Committee Seminar Lecture, "Juan Peron and Argentina's Fascists: An Uneasy Alliance," Richard J. Walter, WU prof. of history, Cohen Lounge, Busch Hall.

4 p.m. Dept. of Chemistry Seminar, "The Mechanism of Ethylene Polymerization by a Co (III) Catalyst," Maurice Brookhart, prof. of chemistry, U. of North Carolina. 311 McMillan.

4 p.m. Dept. of Earth and Planetary Sciences Seminar, "The Diagenesis of Iron in Anoxic Marine Sediments," Donald Canfield, research associate, Yale U. 102 Wilson.

8 p.m. Committee on Comparative Literature Lecture, "Women as Spectacle and Commodity: Wedekind's *Ludic Plays*," Gail Finney, assoc. prof. of German, Harvard U. Hurst Lounge, Duncker Hall.

Friday, March 6

9 a.m. Dept. of Psychology Colloquium, "Groups That Fly," Richard Hackman, dept. of psychology, Yale U. 107 Simon.

2 p.m. Dept. of Chemical Engineering Seminar, "Aspects of Liquid Fluidization," Simon P. Waldram, prof. of chemical engineering, University College, London, England. 100 Cupples II.

6 and 8:30 p.m. WU Association Film Travel Lecture Series, "QE2 Sails New Zealand and Australia," Doug Jones, filmmaker. Graham Chapel. For ticket info., call 889-5122.

Monday, March 9

4 p.m. Dept. of Biology Seminar, "Evolution Among the Onagraceae," Peter Raven, director, Missouri Botanical Garden and WU Engelmann Professor of Botany. 322 Rebstock.

Wednesday, March 11

4 p.m. Dept. of Physics Colloquium, "Do Strings Exist in Relativity?" Jenny Traschien, research associate, U. of Chicago. 204 Crow.

Thursday, March 12

4 p.m. Central Institute for the Deaf (CID) Lecture/Seminar, "Ionic Channels Mediating Efferent Transmissions in the Hair Cell," Antoinette Steinacker, asst. prof. of otolaryngology, WU medical school. Second floor aud., Clinics/Research Bldg., 909 S. Taylor Ave.

Monday, March 16

3:30 p.m. Dept. of Mathematics Analysis Seminar, "On Two Sides of An Arc," John Garnett, prof. of mathematics, UCLA. 199 Cupples I.

4 p.m. Dept. of Biology Seminar, "Plant Viruses," Paul Ahlquist, U. of Wisconsin. 322 Rebstock.

4 p.m. Psi Chi Lecture, "Banality and the Stock Market," Stanley Schachter, dept. of psychology, Columbia U. 112 Wilson.

8 p.m. School of Architecture Lecture Series, "Art of Landscape Construction," Linda Jewel, prof. of landscape architecture, Harvard U. Steinberg Aud.

Tuesday, March 17

4 p.m. Dept. of Chemistry Seminar, "Toward an Improved Understanding of Protein Circular Dichroism," Robert Woody, prof. of biochemistry, Colorado State U. 311 McMillan.

4 p.m. Dept. of Mathematics Geometry Seminar, "Characteristic Classes, the Yang-Mills Functional Instantons, Donaldson's Theorem," Gary Jensen, WU prof. of mathematics. 199 Cupples I.

5 p.m. George Warren Brown School of Social Work Lecture, "International Social Development: Challenge to Social Work Practice," James Midgley, dean, School of Social Welfare, Louisiana State U. Brown Hall Aud.

Wednesday, March 18

11 a.m. Foreign Language Week Lecture, "Censorship and Circumspection: The Writer in the Soviet Union," Vassily Aksyonov, Russian novelist. Graham Chapel.

4 p.m. Dept. of Physics Colloquium, "Equations of Motion in General Relativity," Toshifuma Futamase, research associate, WU physics dept. 204 Crow.

4:30 p.m. Dept. of Mathematics Colloquium, "A Biographical Sketch of W.S. Gosset," Philip Boland, prof. of mathematics, University College, Belfield, Dublin, Ireland. 199 Cupples I.

Thursday, March 19

11 a.m. African Forum Series, "Witness to Apartheid," Stanley Laka, WU engineering student. 349 McMillan.

Noon. Assembly Series Reading and Commentary with Reinaldo Arenas, Cuban exile novelist. Hurst Lounge, Duncker Hall.

4 p.m. Public Affairs Thursday Series, "Racial Attitudes and Racial Violence: Understanding the Paradox of Optimistic Polls vs. Gloomy Realities," Linda Williams, prof. of political science, Howard U. Eliot 200 C & D.

4 p.m. Dept. of Chemistry Seminar, "Organic Reactions in Solution, A Theoretical Frontier," William Jorgensen, prof. of chemistry, Purdue U. 311 McMillan.

4:30 p.m. Dept. of Mathematics Colloquium, "Corona and d Problems," John Garnett, prof. of mathematics, UCLA. 199 Cupples I.

Friday, March 20

3 p.m. Dept. of Psychology Colloquium with Suzanne Craft, McLean Hospital, Harvard medical school, Belmont, Mass. 102 Eads.

4 p.m. The Richard Rudner Symposium in Philosophy, "Aesthetics," Arthur Danto, prof. of philosophy, Columbia U., and Ted Cohen, prof. of philosophy, U. of Chicago. (Continues on Sat., March 20, from 9 a.m. to noon and 2 to 5 p.m.) Steinberg Aud. For more info., call 889-6670.

PERFORMANCES

Friday, March 20

8 p.m. St. Louis Dancers Dance Concert in Edison Theatre. (Also Sat., March 21, at 8 p.m. and Sun., March 22, at 2 p.m., Edison.) General admission is \$10; WU faculty and staff, \$8; students, \$5. For more info., call 889-6543.

EXHIBITIONS

"Published! One Hundred First Books."

An exhibit of first books by highly regarded British and American authors, drawn from the WU libraries' collection of literature. Through April 30. Special Collections, Olin Library, level 5. 8:30 a.m.-5 p.m. weekdays.

"Modern Art." Through April 5. Gallery of Art, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Leslie Laskey Retrospective." March 15 to April 26. Gallery of Art, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Vaughan Grylls Photo-Mosaic Murals." Through April 5. Gallery of Art, upper gallery, east wall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Over the Sofa," installations by St. Louis artists. March 6-22. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

MUSIC

Thursday, March 5

8 p.m. WU Wind Ensemble Concert at Southern Illinois University-Edwardsville Communications Bldg. Theatre.

Friday, March 6

8 p.m. Musicians of Swanee Alley Concert. The Sheldon, 3648 Washington Ave. Co-sponsored by the music dept. and the St. Louis Guitar Society. General admission is \$10. Guitar Society members, senior citizens and students, \$6.

Sunday, March 8

3 p.m. Graduate Voice Recital with Laura Brady, graduate student in the WU dept. of music. Steinberg Aud.

Sunday, March 15

7:30 p.m. William M. Schatzkamer, WU prof. of music, will conduct the University City Symphony Orchestra. Graham Chapel.

Tuesday, March 17

4 p.m. Opera Theatre of St. Louis, "An Operetta Revue." Sponsored by Assembly Series. Drama Studio, Mallinckrodt Center.

Friday, March 20

8 p.m. WU Madrigal Singers Concert. Holmes Lounge.

FILMS

Thursday, March 5

7 and 9 p.m. WU Filmboard Series, "The Blue Angel." \$2. Brown Hall.

Friday, March 6

7 p.m. Italian Film Series, "La Dolce Vita." 210 Ridgley Hall.

Monday, March 16

7 and 9 p.m. WU Filmboard Series, "The Seven Year Itch." \$2. Brown Hall. (Also Tues., March 17, same times, Brown.)

Wednesday, March 18

7 and 9 p.m. WU Filmboard Series, "King of Hearts." \$2. Brown Hall. (Also Thurs., March 19, same times, Brown.)

Friday, March 20

8 and 10 p.m. WU Filmboard Series, "Stand by Me." \$2. Brown Hall. (Also Sat., March 21, same times, and Sun., March 22, at 8 p.m., Brown.)

Midnight. WU Filmboard Series, "Attack of the Mushroom People." \$2. Brown Hall. (Also Sat., March 21, same time, and Sun., March 22, at 10 p.m., Brown.)

SPORTS

Tuesday, March 17

1 p.m. Baseball Doubleheader, WU vs. Illinois College. Kelly Field.

Wednesday, March 18

3 p.m. Men's Tennis, WU vs. Westminster College. Tao Tennis Center.

Thursday, March 19

3 p.m. Men's Tennis, WU vs. St. Louis U. Tao Tennis Center.

Students explore—*continued from p. 3*

include meetings with American business executives working in Japan; briefings with Japanese bank officials; and panel discussions with the country's academics and others about Japanese working women, trends in Japanese culture and the Japanese economy.

The business school also sponsors the International Internship Program, which begins in mid-summer following the students' junior year. Students participate in an intensive academic program at the City University of London, or at the University of Manchester's Business School in England. The London participants research international finance issues, while their Manchester counterparts study the economics of the European Economic Community. Both groups spend the fall semester conducting independent research and working for a British corporation. Work placements are carefully chosen to match the students' background and interest.

The School of Engineering and Applied Science sponsors an exchange program with the Institut National des Sciences Appliquées (INSA) in Lyon, France. Qualified engineering students spend their junior year studying at INSA, the country's largest high-technology education and research institution.

Friday, March 20

3:30 p.m. Women's Tennis, WU vs. Rhodes College. Tao Tennis Center.

Saturday, March 21

10 a.m. Men's and Women's Track and Field, WU Open. Francis Field.

2 p.m. Women's Tennis, WU vs. U. of Wisconsin-Whitewater. Tao Tennis Center.

MISCELLANY

Monday, March 16

7:30-9 p.m. "Adult Children of Alcoholic Parents," a four-week group for understanding how growing up with an alcoholic parent can impact on relationships. Sponsored by the Psychological Service Center. 115 Eads. Cost is \$40. To register, call 889-6555.

Wednesday, March 18

5:30-7 p.m. WU Smoking Cessation Clinic. The non-profit seven-session program is sponsored by the National Cancer Institute in association with the Missouri Department of Health and the American Lung Association. Although the program is non-profit, a \$40 deposit is required, which is returned at the end of the program. 115 Eads. For more info., call 889-6527.

Thursday, March 19

3:30 p.m. University College Short Course, "The Latin American Novel Today," Raymond L. Williams, WU assoc. prof. of Spanish. Course to include three Thursdays ending April 2. Cost is \$60. Enrollment is limited to 20. To register, call 889-6788.

6-7:30 p.m. "Women Who Love Too Much," a six-week group for women caught in a destructive relationship who want to explore other options. Sponsored by the Psychological Service Center. 115 Eads. Cost is \$80. To register, call 889-6555.

Calendar Deadline

The deadline to submit items for the March 26-April 4 calendar of the *Washington University Record* is March 12. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.

The School of Fine Arts has a 100-year lease on art Studio 423 at the Cite Internationale des Arts in Paris, where the annual John T. Miliken Traveling Scholar gets to live and work. After the traveling scholar, who is an outstanding graduating senior elected by the faculty, the order of priority for use of the studio goes to faculty, graduate students and alumni, based upon a semi-annual open competition.

Carolyn Sanford

Botanical garden interpreted by 59 art majors

Graphic designers, photographers and illustrators from Washington University's School of Fine Arts will display their creative interpretations of the Missouri Botanical Garden in a free exhibit from March 2-29 in Monsanto Hall, at the Garden.

Each of 59 junior and senior art majors have submitted at least one piece of their work to be exhibited. The art project has a goal of portraying Garden display areas, exhibits, history and special events in a variety of styles and vehicles.

The exhibit is open from 9 a.m. to 5 p.m. daily.